Subject: Re: slow processing of my k-nearest neighour code
Posted by news.verizon.net on Mon, 14 Aug 2006 15:30:50 GMT
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Karl Schultz wrote:
> On Mon, 14 Aug 2006 10:11:30 -0400, Ben Tupper wrote:
>
>> humphreymurray@gmail.com wrote:
>>
>>>> ; Calculate the squared distance for each attribute.
>>>> squared = make_array(num_training_elements, num_attributes)
>>>> for attrib = 0, num_attributes-1 do begin
>>>> squared[*,attrib] = (testing_data[i, attrib] -
>>>> training_data[*,attrib])^2
>>>> endfor
>>>>
>>
>> Hi,
>>
>> You might try replacing the above for inner-loop with the following
>>
>> squared = (testing_data - training_data)^2
>>

I don't think this works here because you lose the dependence on the i
index -- the value of "squared" will differ for each value of "i".
But another one of David Fanning's pages could help, see
http://www.dfanning.com/code_tips/asterisk.html
and rewrite the assignment as

squared[0,attrib] = (testing_data[i, attrib] -
training_data[*,attrib])^2

--Wayne